

L 9425-66	EWT(1)	GW	
ACC NR:	AR5023009		UR/0269/65/000/003/0056/0056 523.7:525.24
SOURCE:	Ref. zh. Astronomiya, Abs. 8.51.476		24
AUTHOR:	Gordeyev, O.K.		13
TITLE: Dependence of daily solar variations in the magnetic field on solar wave radiation			
CITED SOURCE: Tr. Sibirs. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964, 186-190			
TOPIC TAGS: astronomic data, solar magnetic field, <u>solar</u> radiation effect, <u>SOLAR CYCLE</u> 12,55			
TRANSLATION: A study was made of the dependence of the amplitude of quiet daily solar variations in a magnetic field on solar wave energy. Equations were derived for the regression between the solar constant, expressed in equatorial hours, and the S <sub>q</sub> -variations amplitude for middle latitude stations in the Soviet Union. The fluctuation in the S <sub>q</sub> -variations amplitude during the year is in linear dependence (for middle latitude stations) on the volume of solar wave radiation. The cyclic variability of the regression equation coefficient in the solar cycle was developed on the basis of the analysis.			
SUB CODE:	AA	ENCL:	00
Cord 1/1 rds			

L 15263-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AR5016451

SOURCE CODE: UR/0169/65/000/006/A034/A034

AUTHOR: Likhachev, A.I.; Gordeyev, O.K.

ORG: none

TITLE: Interrelation between the ionospheric parameters of the F2 stratum and the quite-sun variations in Tomsk the magnetic field.

SOURCE: Ref. zh. Geofizika, Abs. 6A192

REF SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964, 88-92

TOPIC TAGS: ionosphere, geomagnetic field, solar energy

TRANSLATION: On the basis of an established relationship between ionospheric parameters and variations in elements of a geomagnetic field under the effect of solar energy entering the atmosphere, regression equations are given for the interrelationship between ionospheric parameters and  $S_q$  variations in a magnetic field. It is shown that the regression equations define the relationship between the observed values of ionospheric parameters and the  $S_q$  variations.

SUB CODE: 03, 04, 08

OC  
Card 1/1

UDC: 550.383.2

GORDEYEV, O. N.

Karelia - Plankton

Urozero is a type of oligotrophic water basin in Central Karelia. Uch. zap. Kar. Fin. un. 3, no. 3, 1948.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

CORDEYEV, O.N., dotsent

Distribution of relict crustaceans in the Karelian lakes. Uch.  
zap.Kar.ped.inst. 7:16-33 '58. (MIRA 15:2)  
(Karelia—Crustacea)

ALEKSANDROV, B.M.; GORDEEV, O.N.; ZABOLOTSKIY, A.A.

Limnological characteristics of Lake Lososinskoye. Uch.zap.kar.ed.  
inst. 7:41-65 '58. (MIRA 15:2)  
(Lososinskoye, Lake—Limnology)

GORDEYEV, O.N.

Hydrobiological characteristics of some lakes in Suoyarvi District,  
Karelian A.S.S.R. Trudy Kar.fil. AN SSSR no.13:108-125 '58.  
(MIRA 13:5)

(Suoyarvi District--Limnology)

GORDYEV, O. N.; GORDYIEVA, I. N.

Hydrobiological characteristics of Pyaozero and feeding habits of  
fish. Uch.sap. Kar.ped.inst. 8:11-35 '59. (MIRA 13:11)  
(Pyaozero, Lake--Fresh-water biology)

POLYANSKIY, Yu.I., otv. red.; GORDEYEV, O.N., red.; KUDERSKIY, L.A., red.; LUTTA, A.S., red.; SOKOLOVA, V.A., red.

[Fauna of the lakes of Karelia; invertebrates] Fauna ozer Karelii; bespozvonochnye. Moskva, Nauka, 1965. 323 p.  
(MIRA 18:9)

1. Akademiya nauk SSSR. Karel'skiy filial, Petrozavodsk.  
Institut biologii.

*Gordeyev, P. A.*

124-1957-2-1826

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 52 (USSR)

AUTHOR: Gordeyev, P.A.

TITLE: On Some Peculiarities of the Combustion in an Engine Having a Combustion Chamber in the Piston (O nekotorykh osobennostyakh protsessa sgoraniya v dvigatele s kameroy v porshne)

PERIODICAL: Tr. Leningr. korablestroit. in-ta, 1954, Nr 14, pp 153-170

ABSTRACT: An experimental investigation of combustion chambers carved into the top of the piston of a slot-controlled uniflow two-stroke engine is outlined in the paper. The investigation was conducted on a one-cylinder engine (bore 65 mm, stroke 90 and 120 mm) with tapered-skirt pistons and with various alternate designs of the combustion chamber. The latter were formed in the shape of a spherical segment. According to the data obtained from the investigation, the use of the chambers in the pistons increases the power by 15-20% and simultaneously lowers the fuel consumption by 7-10%.

B.D.Zaloga

1. Combustion chambers--Performance    2. Pistons--Design

Card 1/1

POLYANSKIY, S.K., inzh.; BOLIYEV, Ch.B., inzh.; KOLMAKOV, V.M., inzh.;  
LUYK, I.A., inzh.; LINETSKIY, G.I., inzh.; GORDEYEV, P.A.,  
red.; BOROVNEV, N.K., tekhn. red.

[Album on the maintenance of the E-652 excavator] Al'bom  
tekhnicheskogo obsluzhivaniia ekskavatora E-652. Moskva,  
Gosstroizdat, 1963. 175 p. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut organizatsii i mekha-  
nizatsii stroitel'nogo proizvodstva.  
(Excavating machinery--Maintenance and repair)

GORDEYEV, P.A., inzh.

Automatic washing machine with a capacity of 50 kg (ASMTS-50).  
Nov. tekhn. zhil.-kom. khoz.: Blagoustr. gor. [no.1]:82-88 '61.  
(MIRA 18:5)

BOGUSLAVSKIY, Boris L'vovich; GLINKIN, N.M., nauchnyy red.; GORDEYEV,  
P.A., red.; KOZLOVSKAYA, M.D., tekhn. red.; PERSON, M.N.,  
tekhn. red.

[Semiautomatic and automatic lathes and automatic lines] To-  
karnye poluavtomaty, avtomaty i automatizirovannye linii.  
Izd.3., perer. i dop. Moskva, Vses.uchebno-pedagog. izd-vo  
Proftekhizdat, 1961. 599 p. (MIRA 15:4)  
(Lathes) (Automation)

SUMIN, I.P., gornyy inzh.; GORDEYEV, P.A., gornyy inzh.; ZOL'NIKOV, V.V.,  
gornyy inzh.

Studying the effect of the length of stemming on the degree  
of fracturing of the rock massif by detonating borehole charges.  
Vzryv. delo no.54/11:185-189 '64. (MIRA 17:9)

1. Bachatskiy ugol'nyy razrez tresta Belovugol'.

KOSENKO, I.S., kand. tekhn. nauk, nauchn. red.; GORDEYEV, P.A.,  
red.; KASIMOV, D.Ya., tekhn. red.

[Mechanization and automatization of factories producing  
precast reinforced concrete and the assembling of large-  
panel buildings] Mekhanizatsiia i avtomatizatsiia na za-  
vodakh stornogo zhelezobetona i montazh krupnopal'nykh  
zdanii. Moskva, Gosstroizdat, 1963. 82 p.

(MIRA 16:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. TSentral'-  
nyy institut nauchnoi informatsii po stroitel'stvu i ar-  
khitekture.

(Buildings, Prefabricated) (Automation)  
(Precast concrete)

MYSKOVA, N.M.; TOMA, O.F.; PECHKIN, K.P.; KHALEVSKAYA, S.I.;  
GOL'SKAYA, I.F.; NEPOROZHNIY, P.S., red.; NOVITSKIY, L.M.,  
nauchn. red.; GORDEYEV, P.A., red.; GOL'BERG, T.M., tekhn.  
red.

[Album of new construction equipment; recommended for use]  
Al'bom novoi stroitel'noi tekhniki, rekomenduемоi k vnedre-  
niu. Moskva, Gosstroizdat. No.2. [Construction of power  
engineering structures. Electrical engineering structures]  
Energeticheskoe stroitel'stvo. Elektrotekhnicheskie raboty.  
1963. 111 p. (MIRA 16:10)  
(Power engineering) (Hydraulic structures)

AYDAROV, G.A., inzh.; BELYAYEV, B.I., inzh.; LEVIN, L.I., inzh.;  
RYABOV, A.F., inzh.; SAKHNOVSKIY, M.M., kand. tekhn.  
nauk; CHESNOKOV, A.S.; SHILOVTSOV, D.P.; GAY, A.F., kand.  
tekhn.nauk, nauchn. red.; GORDEYEV, P.A., red.; GOL'BERG,  
T.M., tekhn. red.; RODIONOVA, V.M., tekhn. red.

[Manufacture of steel structures] Izgotovlenie stal'nykh  
konstruktsii. Moskva, Gosstroizdat, 1963. 401 p.  
(MIRA 16:8)

(Steel, Structural)

MALICHOVSKIY, Rudol'f [Maličovský, Rudolf], inzh.; KHEVROLIN,  
Ya.I [translator]; KLENDY, M.A., inzh. nauchn. red.;  
GOKDEYEV, P.A., red.

[Assembling structural elements of industrial buildings.  
Abridged translation from the Czech] Montazh stroitel'-  
tykh konstruktsii promyshlennykh sooruzhenii. Moskva,  
Stroizdat, 1964. 86 p. (MIRA 17:6)

GRINEVICH, Georgiy Petrovich; GRINEVICH, Georgiy Georgiyevich;  
GEL'MAN, Aleksandr Samoylovich; KAZARINOV, V.M., kand.  
tekhn. nauk, nauchn. red.; GORDEYEV, P.A., red.;  
SHIROKOVA, G.M., red.

[Comprehensive mechanization of loading and unloading  
work and transportation operations in construction] Kom-  
pleksnaia mekhanizatsiia pogruzochno-razgruzochnykh ra-  
bot i transportnykh operatsii v stroitel'stve. Moskva,  
Stroizdat, 1964. 363 p. (MIRA 17:6)

GOROZEV, P.A.

Present stage and development of high power two-stroke slow speed naval diesel engines. Conair mas 36 no. 71356-362 Jl '64.

GORDEYEV, P.I.

Geomorphological features of the right bank of the Northern Donets  
Valley between Zmiyev and the mouth of the Bakhmut River. Uch.zap.  
KHGU 56:125-135 '55. (MLRA 9:7)  
(Donets Valley--Physical Geography)

*Gordyev, P.I.*

12-90-2-6/30

AUTHORS: Vilenkin, V.L., Gordyev, P.I. and Demchenko, M.A.

TITLE: In Memory of Nikolay Izmaylovich Dmitriyev (Pamyati Nikolaya Izmaylovicha Dmitriyeva) 1886-1957

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958,  
Vol 90, Nr 2, pp 150 - 152 (USSR)

ABSTRACT: Biographical information is presented on Professor Nikolay Izmaylovich Dmitriyev, who, during his lifetime, held the Chair of Regional Physical Geography at Khar'kov University. There is 1 photograph.

AVAILABLE: Library of Congress

Card 1/1 1. Biography

GORDEYEV, P.P.

Automatic device for visual sorting of defective bottles containing  
a liquid. Spirt. prom. 25 no. 7:34-35 '59. (MIRA 13:2)  
(Liquor industry--Equipment and supplies)

GORDEYEV, P.V.

Study of possible forestry tracts with the aid of axonometric aerial  
photography. Les.prom. 14 no.6:4-9 Je '54. (MLRA 7:6)  
(Forests and forestry) (Photography, Aerial)

GORDEYEV, P. V.

Calculating lenticular fresh and saline water reserves in Chernozem  
soil areas. Trudy NPI 103:53-59 '59. (MIRA 13:9)  
(Water, Underground)

POSOKHOV, Ye.V.; GORDEYEV, P.V.

Chemistry of underground waters of Chernyye Zemli. Trudy NPI  
128:85-95 '62. (MIRA 15:9)  
(Chernyye Zemli—Water, Underground—Composition)

GORDEYEV, P.V.

Sources of the formation of the lenses of fresh and brackish waters  
in the "Black Lands." Trudy NPI 156:53-60 '64.

Water supply of the "Black Lands" and prospects for its improvement.  
(MIRA 18:7)  
Ibid.:61-72

BARANOV, B.K.; GORDEYEV, R.I.

Semiconductor rectifiers for the experimental models of the  
N62 electric locomotive. Sbor. nauch. trud. EINII 2:60-71 '62.  
(MIRA 16:8)

(Electric locomotives)  
(Electric current rectifiers)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516120018-7

TIMURDZHI, V.G.; LOBANOVA, L.S.; MUSATOV, I.Kh.; GORDEYEV, R.I.

Dynamic voltampere characteristics of silicon power rectifiers.  
Sbor. nauch. trud. ElNII 3:142-150 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516120018-7"

SOV/91-58-2-5/31

AUTHORS: Gordéyev, S.D., Technician, and Shirokshin,  
Ye.A., Engineer

TITLE: On the Automatic Switch-Off of the Turbine  
from the Steam Duct if Water is Spattered  
Into it (Avtomlicheskoye otklyucheniye  
turbiny ot paroprovoda pri zabrose v nego  
vody)

PERIODICAL: Energetik, 1958, Nr 2, p 10 (USSR)

ABSTRACT: If water is spattered into the turbine, the  
steam-pass section of the turbine gets da-  
maged. A new automatic device aimed at pre-  
venting this, has been installed at the mo-  
bile power station Nr 45. The new automatic  
device works on the basis of the electro-  
conductivity of the boiler water. The possi-  
bility of spurious operation of the new sys-  
tem is eliminated by means of a screen-cover  
installed above the contacts' plug. The

Card 1/2

SOV/91-58-2-5/31

On the Automatic Switch-Off of the Turbine from the Steam Duct if Water is Spattered Into it

editor remarks that water spattering is almost eliminated in the new type boilers. Occasionally, spattered water evaporates in the steam duct. There is 1 schematic diagram.

Card 2/2

GORDEYEV, Semen Osipovich; KOZLOVSKIY, B.A., red.; DOLGOVA, K.N.,  
red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Asphalt-concrete work] Asfal'tobetonnye raboty. Moskva,  
Izd-vo M-va kommun.khoz.RSFSR, 1962. 225 p. (MIRA 15:10)  
(Asphalt concrete) (Pavements)

GORDEYEV, Semen Osipovich. Prinimal uchastiye KOZLOVSKIY, B.A.,  
kand. tekhn. nauk; SUKHAROVA, E.S., red.izd-va; KHENOKH,  
F.M., tekhn. red.

[Deformations and defects of asphalt concrete pavements]  
Deformatsii i povrezhdeniya dorozhnykh asfal'tobetonnykh  
pokrytii. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 131 p.  
(MIRA 17:3)

GORDEYEV, Semen Osipovich

[Asphalt concrete work] Asfal'tobetonnye raboty. I id.2.  
Moskva, Stroiizdat, 1964. 205 p. (MIRA 17:11)

GORDEYEV, S.V.; DAYKER, A.I.

Role of the preheating flame in the oxygen cutting process.  
[Sbor. trud.] Nauch.-issl.inst.met. no.4:128-134 '61.  
(MIRA 15:11)  
(Gas welding and cutting)

TIMOFEYEV, V. N.; SHKLYAR, F. R.; PALTUSOVA, K. I.; Prinimali uchastiye:  
PAKHALUYEV, K. M., inzh.; IZMAYLOV, O. A., inzh.; DHUSOVITIN,  
A. M., inzh.; GORDIYEV, S. V., inzh.; RUZHENTSEVA, T. M.,  
laborant; GERASIMOV, G. I., laborant

Aerodynamics of blast furnace air preheaters. Sbor. nauch.  
trud. VNIIMT no.8:302-347 '62. (MIRA 16:1)

(Blast furnaces)  
(Air preheaters—Aerodynamics)

BACHURIN, N.I., inzh.; GORDEYEV, S.V., inzh.

Standardization and normal series of the principal parameters  
of high-voltage current transformers. Elektrotehnika 34 no.9:  
60-65 S '63. (MIRA 16:11)

MUSHEGYAN, S.A.; GORDEYEV, S.V.; MARTYNOV, L.N.; SYPER, N.A.

AIK-RD-62 apparatus and its use in the oncological clinic.  
Vop. onk. 11 no.9:75-79 '65. (MIRA 18:9)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy  
khirurgicheskoy apparatury i instrumentov (dir. - zasluzhennyy  
vrach RSFSR M.G.Anan'yev).

GORIYEYEV, V.; GRINBERG, M.

Method of preparing engineering calculations for mechanized execution. Vych. i crg.tekh. v stroi. i proek. no.1:62-73 '64.  
(MIRA 18:10)  
1. Gosudarstvennyy proyektnyy institut Ukrproektstat'-konstruktsiya.

GORDEYEV, Vasiliy Aleksandrovich

(Leningrad Textile Inst imeni Kirov), Academic degree of Doctor of Technical Sciences, based on his defense, 7 April 1955, in the Council of the Moscow Textile Inst, of his dissertation: "Research on the workings of machinery for loosening and tightening of frames of weaving looms."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 17, 9 July 1955, Byulleten' MVO SSR, No. 17, Sept 1956, Moscow, pp 9-16, Uncl. JPRS/NY-435

GORDEEV, Vasiliy Aleksandrovich; NEZHEL'SKAYA, A.I., retsenzent;  
ARKHANGEL'SKIY, S.S., redaktor; EL'KINA, E.M., tekhnicheskiy  
redaktor.

[Construction and maintenance of the AT-100 automatic loom]  
Ustroistvo i obsluzhivanie avtomaticheskogo tkatskogo stanka  
AT-100. Izd.2-oe, ispr. i dop. Moskva, Gos.nauchno-tekhn.  
izd-vo Ministerstva promysh.tovarov shirokogo potrebleniia  
SSSR, 1955. 170 p. (MLRA 8:11)  
(Looms)

GORDENOV, V. A.

*A*

2549. Gordenov, V. A. The investigation of the elastic properties of textile materials under dynamic strain by a dynamic method (in Russian). "Tekstiln. promst'" no. 1, 37-41, 1953; Rev. no. 1818, Ref. Zb. Metab. 1956.

An apparatus is described for testing the elastic properties of cotton yarns, glass filaments, and woolen yarns, founded on the principle of measuring the vertical vibrations of a weight suspended on the test shank.

Test methods are described and experimental results presented. For all materials excepting glass filaments, the value of the coefficient of elasticity determined by this dynamic method is found to be considerably higher than found by the static test.

Courtesy of Referativnyi Zhurnal A. V. Matukonis, USSR  
Translation courtesy Ministry of Supply, England

*4E2c*  
*2 May*

GORDYEV, V.A.

VASILYEV, V.A. kandidat tekhnicheskikh nauk

Computing the elasticity coefficient for loom preparation systems.  
Publ. prom. 15 no.5:26-29 My '55. (U.S.S.R.)  
(Looms)

GORDEYEV, Vasiliy Aleksandrovich, prof.; VOLKOV, Pavel Vasil'yevich,  
dotsent; MARKOV, N.F., retsenzent; BLYUYER, V.A., retsenzent;  
GORITSKIY, S.G., retsenzent; KULIGIN, A.V., retsenzent; SEGAL',  
N.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[Weaving] Tkachestvo. Moskva, Gos.sauchno-tekhn.izd-vo lit-ry  
po legkoi promyshl., 1958. 550 p. (MIRA 12:3)  
(Weaving)

BASHKIROV, Matvey Viktorovich; GORDEYEV, V.A., retsenzent; ARKHANGEL'SKIY, S.S., red. [deceased]; SOKOLOVA, V.Ye., red.; KNAKNIN, M.T., tekhn.red.

[Theory and practice of knotting various fibrous materials]  
Voprosy teorii i praktiki soedineniya nitei razlichnykh voloknistykh materialov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po lekkoi promyshl., 1959. 223 p. (MIRA 13:1)  
(Knots and splices) (Textile machinery)

GORIYEYEV, V.A.

Investigating the cyclic deformation in flexible loom filling  
systems. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.3:103-111  
'59. (MIRA 12:11)

1. Leningradskiy tekstil'nyy institut im. S.M. Kirova.  
(Looms)

GORDEYEV, V.A.

Determining the components and the total cyclic deformation  
of the feeler filling system of looms. Izv.vys.ucheb.zav.:  
tekh.tekst.prom. no.4:105-114 '59. (MIRA 12:11)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.  
(Looms)

GORDEYEV, V.A.; SIMAKIN, V.V., retsensent; ORLOVA, L.A., red.;  
SHAPENKOVA, T.A., tekhn.red.

[Design and operation of automatic looms] Ustroistvo i obslu-  
zhivanie avtomaticheskikh tkatskikh stankov. Moskva, Izd-vo  
nauchno-tekhn.lit-ry RSFSR, 1960. 182 p.

(Looms)

(MIRA 14:3)

GORDEYEV, V.A.

Precision of the performance of the friction let-off motion. Izv.  
vys.ucheb.zav.; tekhn.tekst.prom. no.6:92-101 '60. (MIRA 14:1)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.  
(Looms)

GORDEYEV, Vasilii Aleksandrovich; NEKRASOV, Konstantin Pavlovich;  
VOLKOV, Pavel Vasil'yevich; SIMAKIN, V.V., retsenzent; SOKOLOV,  
A.F., spets. red.; SIDOROV, Yu.P., spets. red; AKSENOVA, I.I.,  
red.; VINOGRADOVA, G.A., tekhn. red.

[Cotton weaving] Khlopkotkachestvo. Moskva, Izd-vo nauchno-  
tekhn. lit-ry RSFSR, 1961. 517 p. (MIRA 15:1)  
(Cotton weaving) (Looms)

35937  
S/024/62/000/001/008/013  
E140/E435

16.8000 (402,4201)

AUTHOR: Gordeyev, V. A. (Leningrad)

TITLE: Self-adjusting system design principle

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye  
tekhnicheskikh nauk. Energetika i avtomatika.  
no.1, 1962, 152-157

TEXT: The author considers the problem of quality index and  
design principles for self-adjusting systems with rapid variation  
of the basic loop. In the present context "rapid" is a change  
such that it cannot be neglected during the duration of the  
transient process in the basic loop. The study relates  
specifically to a system in which the basic loop has the transfer  
characteristic of a simple tuned circuit. The method proposed is  
to compare the amplitudes of successive half cycles of the  
oscillatory process and to adjust the circuit damping so as to  
maintain, in one case, unity ratio, thus stabilizing the operation  
at the limit of stability or, in the general case, constant ratio,  
thus providing damping of oscillatory processes arising as a  
result of random variations of the system parameters. In this  
case, however, the problem arises of finding the appropriate

Card 1/2

24.4/00

39949

S/024/62/000/003/003/011  
E140/E463

AUTHOR: Gordeyev, V.A. (Leningrad)

TITLE: The dynamics of self-adjusting systems with rapidly varying parameters

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika, no.3, 1962, 122-131

TEXT: The usual quality criteria of self-adjusting systems take an appreciable time to calculate and can therefore be used only for systems with slowly varying parameters, i.e. parameters which practically do not change during the time for calculation of the quality criterion. The author considers here systems of the type

$$\varphi(\lambda)(\lambda^3 + A_1\lambda^2 + A_2\lambda + A_3) = 0 \quad (1)$$

where the nearest roots to the imaginary axis are a pair of complex roots. The real root is sufficiently far from the axis so that the free motion of the system is determined by the complex pair. The system can be approximated by a third order system with variable coefficients  $A_i$ . The mode of operation considered is one with the system close to the boundary of stability. Here Card 1/3

S/024/62/000/003/003/011  
E140/E463

The dynamics of self-adjusting ...

Eq.(1) takes the form

$$(\lambda + \alpha)(\lambda^2 + \beta^2) = 0 \quad (2)$$

with

$$\alpha = A_1, \quad \beta = \sqrt{A_2}$$

The self-adjusting system alters the values of the  $A_i$  if the system leaves the boundary of stability. Eq.(1) is expanded in a Taylor series about any one root in powers of that root and only the linear term is retained, yielding an expression

$$\delta_i = \lambda_i - \lambda_i^* = \frac{F(\lambda_i^*)}{\frac{\partial F(\lambda)}{\partial \lambda} \bigg|_{\lambda = \lambda_i^*}} \quad (3)$$

where  $F$  is the characteristic equation of the system. This permits expressions to be found describing the effects on the stability of varying any given  $A_i$ . The quality criterion employed is based on the ratio of peak amplitudes over a period of oscillation. Necessary and sufficient conditions are determined

Card 2/3

GORDEYEV, V.A.; BRUSNIKINA, L.L.

Comparing the efficiency of continuous and intermittent warping  
in cases of an optimum set of bobbins. Izv.vys.ucheb.zav.;  
tekhn.tekst.prom. no.6:11-17 '62. (MIRA 16:2)

1. Leningradskiy tekstil'nyy institut imeni S.M.Kirova.  
(Warping machines) (Time study)

GORDEYEV, Vasiliy Aleksandrovich; ROZANOV, F.M., retsenzent;  
AKSENOVA, I.I., red.; BATYREVA, G.G., tekhn. red.

[Collection of problems on weaving] Sbornik zadach po  
tkachestvu. Moskva, Gizlegprom. 1963. 180 p.

(MIRA 16:9)

(Weaving)

ZOTIKOV, Vladimir Yevgen'yevich, doktor tekhn. nauk, prof.; BUDNIKOV, Ivan Vasil'yevich; TYKOV, Petr Pavlovich; GORDEYEV, Vasilii Aleksandrovich; DALIDOVICH, Aleksandr Semenovich; CHUGREYEVA, V.N., red.; BATYREVA, G.G., tekhn. red.

[Equipment and technology for the processing of fibrous materials] Mekhanicheskaiia tekhnologija voloknistykh materialov. Moskva, Gislegprom, 1963. 638 p. (MIRA 16:9)  
(Textile industry) (Textile machinery)

S/280/63/000/001/013/016  
E140/E435

AUTHOR: Gordyev, V.A. (Leningrad)

TITLE: Quality criteria in adaptive systems

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye  
tekhnicheskikh nauk. Tekhnicheskaya kibernetika.  
no.1, 1963, 121-129

TEXT: The method of the auxiliary operator is applied to the determination of the components of the system gradient in an adaptive control system. The method is claimed to be superior to that of G.W.Anderson et al (IRE National Convention Record, pt.4, 1958) in the speed of response and absence of test signals perturbing the process. The disadvantages of the system are 1) it places the control system on the oscillatory boundary of stability, which is inadmissible for certain processes, 2) it is necessary to determine the component corresponding to the two roots nearest the imaginary axis and 3) it is only possible to adjust a single parameter. See also the paper on adaptive systems with gradient search (same journal and issue, pp.113-120). There are 5 figures.

Card 1/1 SUBMITTED: June 23, 1961

GORDEYEV, V.A.; KULIKOVA, N.A.

Studying the elastic properties of textiles under the conditions of short-time deformations. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.4:8-11 '63. (MIRA 16:11)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.

GORDEYEV, V.A., doktor tekhn. nauk, prof.

Calculating the warp tension on a loom with a planetary warp regulator. Tekst. prom. 23 no.6:35-38 Je '63.

(MIRA 16:7)

1. Zaveduyushchiy kafedroy tkachestva Leningradskogo tekstil'-nogo instituta imeni Kirova.

(Looms)

GORDEYEV, V.A., doktor tekhn. nauk, prof.

Effect of the relative values of the rigidity coefficient of  
the elements of the loom elastic filling system on the  
magnitude of the cloth fell distance. Tekst. prom. 24  
no.10:47-50 0 '64. (MIRA 17:12)

1. Zaveduyushchiy kafedroy tkachestva Leningradskogo instituta  
tekstil'noy i legkoy promyshlennosti imeni Kirova.

GORDEYEV, Vasiliy Aleksandrovich; GOR'KOV, V.K., kand. tekhn. nauk, retsenzent; ISAKOV, N.P., kand. tekhn. nauk, retsenzent; SIDOROV, Yu.P., kand. tekhn. nauk, retsenzent; AGADZHANOVA, I.A., red.;

[Dynamics of the mechanisms for warp releasing and tensioning in looms] Dinamika mekhanizmov otpuska i natiazheniya osnovy tkatskikh stankov. Moskva, Legkaia industriia, 1965.  
223 p. (MIRA 18:10)

1. GORDEYEV, V.D.
2. USSR (600)
4. Gordeyev, V.D.
7. On the pamphlet "Symmetric trawl and its construction" by V.D. Gordeyev, Reviewed by Ye.Yu. Manner, Ryb.khoz. 29 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

GORDEYEV, V. D. Cand. Tech. Sci.

Dissertation: "Trawling Technique in the Far East." Moscow Technical Inst of Fish Industry and Economy imeni A. I. Mikoyan, 21 Mar 47.

SO: Vechernaya Moskva, Mar, 1947 (Project #17836)

GORDEYEV, V. D.

Gordeyev, V. D. - "The status and future of the trawling industry in the Far East", *Tzvestiya Tikhookean. nauch.-issled. in-ta ryb. khoz-va i okeanografii*, Vol. XXIX, 1949, p. 3-33, - Bibliog: 49 items.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

GORDEEV, V. G.

Prevention and therapy of the cancer of skin and mucous membrane by the use of  
Gordeev liquid. Moskva, Nedgiz, 1953. 141 p.

GOLODOVSKY, V. S.; GRIGORIANTS, L. G.

"New Material on Treatment of Tuberculous Afflictions of the Skin."

Vestnik venerologii i dermatologii (Bulletin of Venereology Dermatology),  
No 1, January-February 1954, (Biomedpr), Moscow.

BESEKERSKIY, Viktor Antonovich; VOSTOKOV, Sergey Borisovich; TSEYTLIN,  
Yakov Moiseyevich; GORDEYEV, V.G., kand. tekhn. nauk, retsenzent;  
FABRIKANT, Ye.A., nauchn. red.; LESKOVA, L.R., red.

[Electromechanical smoothing devices] Elektromekhanicheskie  
sglazhivaiushchie ustroistva. Leningrad, "Sudostroenie,"  
1964. 145 p. (MIRA 17:5)

GORDEYEV, V.I.

Surgical treatment of cardiospasm. Khirurgiia no.6:12-15 Je '61.  
(MIRA 14:11)

1. Iz khirurgicheskogo otdeleniya (zav. V.I. Gordeyev) Kher-  
sons'kogo oblastnogo onkologicheskogo dispansera (glavnnyy vrach  
P.K. Sapozhnikov).

(CARDIOSPASM)

GORDEYEV, V.I.

Presternal plastic surgery of the esophagus using the stomach.  
Nov.khir.arkh. no.4:67 '62. (MIRA 15:5)

1. Khirurgicheskoye otdeleniye Khersonskogo oblastnogo onkologicheskogo dispansera.  
(ESOPHAGUS--CANCER) (STOMACH--SURGERY)

GORDEYEV, V. I.

Surgical treatment of cancer of the pancreas. Vop. onk. 8 no.4:  
91-94 '62. (MIRA 15:4)

1. Iz khirurgicheskogo otdeleniya (zav. - V. I. Gordeyev)  
Khersonskogo onkologicheskogo dispansera (glav. vrach - V. I.  
Gordeyev)

(PANCREAS—CANCER)

L 27495-66

ACC NR: AP6015607

SOURCE CODE: UR/0020/66/168/002/0310/0313

AUTHOR: Adirovich, E. I. (Academician AN UzSSR); Gordeyev, V. I.

ORG: Physicotechnical Institute, Academy of Sciences UzSSR (Fiziko-tehnicheskiy institut Akademii nauk UzSSR)

TITLE: Investigation of a regenerative optron with optical feedback

SOURCE: AN SSSR. Doklady, v. 168, no. 2, 1966, 310-313

TOPIC TAGS: light emission, photoresistor, trigger circuit

ABSTRACT: Conditions under which an opto-electronic cell with positive optical feedback provides a bistable volt-ampere characteristic are analytically investigated. An experimental optron was constructed using a GaP-photodiode and a CdS photoresistor. The components were well matched by spectrum and were operated in the vicinity of  $\lambda_{max} = 0.6\mu$ . Optical coupling between the photodiode and the photoresistor was by direct illumination, without the use of fiber optics. The experimental volt-ampere characteristic of the device had a clearly expressed trigger-type character. Orig. art. has: 4 figures and 14 formulas. [GS]

SUB CODE: 09 / SUBM DATE: 28Jan66 / OTH REF: 006 / ATD PRESS: 4260

Card 1/1 BWG

UDC: 539.293:535.215+621.382.001.24

AVILOV-KARNAUKHOV, B.N.; BOGUSH, A.G.; GIKIS, A.F.; DROZDOV, A.D.;  
MALOV, D.I.; SINEL'NIKOV, Ye.M.; BRUSENTSOV, L.V.; DENISOV, A.A.;  
PAL'SHAK, M.V.; POLYAKOV, F.I.; CHERNYAVSKIY, F.I.; BUROK, V.S.;  
GORDEYEV, V.I.; KAZHDAN, A.E.; KOVALEV, V.Ye.; KURENNYY, E.G.;  
POTAPENKO, V.Ya.

Professor Georgii Mikhailovich Kaialov, 1905- ; on his 60th  
birthday and the 37th anniversary of his theoretical and educa-  
tional work. Izv. vys. ucheb. zav.; elektromekh. 8 no.10:1181-  
1182 '65. (MIRA 18:11)

GCRDEYEV, V.K.

Symposium of the Scientific Results of the  
Expedition on Board the "CHELYUSKIN" and in the  
camp of SHMDT, Leningrad, 1938.

L 23216-66 EWT(d)/EWP(k)/EWP(1)  
ACC NR: AP6013582

SOURCE CODE: UR/0144/65/000/010/1181/1182

AUTHOR: Avilov-Karnaukhov, B. N.; Bogush, A. G.; Gikis, A. F.; Drozdov, A. D.;  
Malov, D. I.; Sinel'nikov, Ye. M.; Brusentsov, L. V.; Denisov, A. A.; Pal'shau, M. V.;  
Polyakov, B. A.; Chernyavskiy, F. I.; Burok, V. S.; Gordeyev, V. I.; Kazhdan, A. E.;  
Kovalev, V. Ye.; Kurennyy, E. G.; Potapenko, V. Ya.

ORG: none

TITLE: Professor G. M. Kayalov on the occasion of his 60th birthday and 37 years of  
pedagogical activities

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 10, 1965,  
1181-1182

TOPIC TAGS: electric engineering personnel, academic personnel

ABSTRACT: Doctor of Engineering Sciences. Professor of RIIZhT  
Rostovskiy institut inzhenerov zheleznodorozhnogo transporta;  
Rostov Institute of Railroad Engineers, Georgiy Mikhaylovich  
KAYALOV was born on 26 September 60 years ago. He began his  
working career as a standby electrical construction worker at the  
Novorossiysk cement factory. In 1929 he graduated from the  
Novocherkassk Polytechnical Institute, and between 1928 and 1947  
worked in the designing section of the "Elektroprom" trust. Sub-

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L 23216-66  
ACC NR: AP6013582

sequently, he joined the Rostov department of the GPI Gosudarstvennyy proyektnyy institut; State Designing Institute "Tyazhpromelektro-proyekt" where he advanced from a technician of the designing department to its chief engineer. From 1933 to 1962 he was docent of the department of electrification of industrial enterprises of the NPI Novocherkasskiy politekhnicheskiy institut imeni Sergo Ordzhonikidze; Novocherkassk Politechnic Institute im. Sergo Ordzhonikidze; he taught as professor until 1965 and presently is a professor of the RIIZhT. He published more than 70 scientific works, including studies of flywheel-containing electric motors, investigations of electrical loads of industrial enterprises, analyses of basic features of real load graphs, (including their probabilistic modeling), proposals for peak load calculation methods (based on the theory of mass servicing) and developments of methods for the calculation of extremal loads of heavy consumers, for the study of random graphs of reactive loads, for the evaluation of electric load fluctuations, and the like. G. M. KAYALOV was also active in the Party, professional, and scientific organizations. He is a holder of the "For Outstanding Work During the Great Patriotic War of 1941-1945 gg." medal and the "Badge of Honor" decoration. Orig. art. has: 1 figure. [JPRS]

14

SUB CODE: 09, 05 / SUBM DATE: none

Card 2/2 28

24380  
1.2580 (1040, 1159)

S/142/60/005/005/007/015  
E192/E382

AUTHOR: Gordeyev, V.K.

TITLE: Determination of the Shape of the Pulses From a  
Generator Based on a Secondary Emission Tube

PERIODICAL: Izvestiya vysshikh uchebnykh zavodeni, Radiotekhnika, 1960, Vol. 3, No. 5, pp. 491-496

TEXT: Pulse-generators based on secondary emission tubes are of considerable importance and the theoretical calculation of the shape of the pulses produced by these devices is of interest. A simplified diagram of a pulse-generator of this type is shown in Fig. 1. For the purpose of analysis it is assumed that the parasitic capacitance between the grid and the cathode can be neglected, while the grid-dynode inter-electrode capacitance can be added to the coupling capacitance  $C$ . The equations for the system can therefore be written as:

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$$\left\{ \begin{array}{l} I_d - i_e = \frac{U_d}{R_d} + C_d \frac{dU_d}{dt}; \\ i_e = \frac{U_d}{R_d}; \\ i_e = C \left( \frac{dU_d}{dt} - \frac{dU_d}{dt} \right). \end{array} \right. \quad (1)$$

The dynode current in these equations is dependent on the voltage at the control grid  $U_g$  and the dynode voltage  $U_d$ , assuming that the voltages at the remaining electrodes are constant. Eqs. (1) are therefore nonlinear and for the purpose of analysis it is assumed that from time  $t = 0$  to the instant  $t_1$  the dynode current is solely dependent on the grid voltage, i.e.  $I_d = S U_g$  (see Figs. 2). From the instant  $t_1$  at which  $U_d = U_{d1}$  until the instant  $t_2$  it can

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E192/E382

be assumed that the dynode current is dependent on the dynode voltage and follows:

$$I_d = S_1 (U_{dm} - U_d) \quad (2)$$

where  $U_{dm}$  is the value of the dynode voltage at which the dynode current changes its sign and

$$S_1 = \frac{SU_{d1}}{U_{dm} - U_{d1}} \quad (3)$$

The dependence of the dynode current on the dynode voltage can be approximately represented as shown in Fig. 2. Eqs. (1) can be written as a single differential equation and for the interval from  $t = 0$  to  $t = t_1$  the equation is

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$$\frac{dU_d}{dt} + \left( \frac{1}{R_g C_d} + \frac{1}{R_d C_d} + \frac{1}{R_g C} - \frac{S}{C_d} \right) \frac{dU_g}{dt} + \frac{1}{R_d C_d R_g C} U_g = 0. \quad (4)$$

By introducing the notation of

$$\tau_{11} = R_d C_d; \tau_{20} = R_d C; \tau_{21} = R_g C_d; v = \frac{S}{C_d}, \quad (5)$$

Eq. (4) can be written as:

$$\frac{dU_d}{dt} + \left( \frac{1}{\tau_{11}} + \frac{1}{\tau_{20}} + \frac{1}{\tau_{21}} - v \right) \frac{dU_d}{dt} + \frac{1}{\tau_{11} \tau_{20}} U_d = 0. \quad (6)$$

and its solution is in the form

$$U_d = A_1 e^{\rho_1 t} + A_2 e^{\rho_2 t}, \quad (7)$$

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where  $p_1$  and  $p_2$  are the roots of the characteristic equation and  $A_1$  and  $A_2$  are constants which can be determined from the initial conditions. From Eq. (8) it is easy to determine the self-excitation conditions for the system. The differential equation for the interval  $t_1 \leq t \leq t_2$ , where  $t_2$  is the instant when the grid voltage reaches the value  $U_{d2} = U_{d1}$ , is:

$$\frac{d^2U_d}{dt^2} + \left( \frac{1}{R_d C_d} + \frac{1}{R_d C} + \frac{1}{R_a C_d} + \frac{S_1}{C_d} \right) \frac{dU_d}{dt} + \frac{1}{R_d C} \left( \frac{1}{R_a C_d} + \frac{S_1}{C_d} \right) U_d = \frac{S_1 U_{d_m}}{R_d C_d C}. \quad (11) \quad (11)$$

By following the notation of Eq. (5) and:

$$S_1/C_d = \mathcal{V}_1 \quad (12) \quad \text{,} \quad \text{X}$$

it is found that the solution of Eq. (11) is:

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$$\frac{d^2U_d}{dt^2} + \left( \frac{1}{\tau_n} + \frac{1}{\tau_m} + \frac{1}{\tau_n} + v_1 \right) \frac{dU_d}{dt} + \frac{1}{\tau_m} \left( \frac{1}{\tau_n} + v_1 \right) U_d = \frac{v_1}{\tau_m} U_{d_m}. \quad (15)$$

where  $p_1$  and  $p_2$  are the roots of the characteristic equation and  $A_1$  and  $A_2$  are two constants which can be determined from the initial conditions. From the instants  $t_1$ , the voltage at the grid decreases to the value  $U_{d1} = U_{d2}$  and the voltage at the dynode increases to  $U_{d2}$ . Commencing from the instant  $t_2$ , the decrease of the voltage at the grid continues; simultaneously, the dynode current becomes dependent on the dynode and grid voltages. From the instant  $t_2$  until the instant  $t_3$ , it can be assumed that the dynode current is given by  $I_d = S_2 U_d$ , where:

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$$S_2 = S_1 \frac{U_{dm} - U_{d2}}{U_{d2}} \quad (19)$$

The differential equation describing the behaviour of the system from the instant  $t_2$  is similar to Eq. (4), except that  $S$  is replaced by  $S_2$ . The above formulae were used to calculate the shape of the pulses for a generator having the following parameters:  $S = 20 \text{ mA/V}$ ,  $U_{d1} = 20 \text{ V}$ ,  $C_d = 20 \text{ pF}$ ,  $R_d = 2 \text{ k} \cdot \cdot$  (abstractor's note: probably  $R_g$ ),  $R_d = 200 \text{ } \mu\text{A}$ ,  $C = 100 \text{ pF}$  or  $C = 20 \text{ pF}$ ,  $U_{do} = 1 \text{ V}$  and  $U_{dc} = 0 \text{ V}$ .

The shape of the pulses is illustrated in Figs. 3, where the upper figure represents the grid voltage and the lower figure shows the dynode voltage; Curves 1 are for the case of Card 7/10.

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Determination of ....

$C = 20 \text{ pF}$ , while Curves 2 are for  $C = 100 \text{ pF}$ . The above analysis should be more accurate than that given in the work of G. Narud (Ref. 1 - IRE National Convention Record, 1957, No. 5, 103), where the finite value of the coupling capacitance was not taken into account.

(Abstractor's note: in many of the equations there seems to be confusion between the grid voltage  $U_g$  and the dynode voltage  $U_d$ .)

There are 3 figures and 1 non-Soviet reference.

ASSOCIATION: TsNII Gos. Komiteta Soveta Ministrov SSSR po radioelektronike (Central Scientific Research Institute of the State Committee of the Council of Ministers of the USSR for Radio-electronics)

SUBMITTED: May 15, 1959 to the journal NDVSh  
February 4, 1960 to the editor of this journal.

Card 8/10

KHARCHENKO, V.F., inzh.; GORDEYEV, V.K., inzh.; SYSOYEV, T.I., inzh.;  
KHIGER, M.G., inzh.

Erection of heavy towers for electric transmission lines in  
close quarters. Mont. i spets. rab. v stroi. 24 no.2:9-10  
F '62. (MIRA 15:6)

1. Rostovskiy Gosudarstvennyy institut po proyektirovaniyu,  
issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov  
i trest Yuzhstal'konstruktsiya.

(Electric lines--Poles and towers)

S/879/62/000/000/067/088  
D234/D308

AUTHOR: Gordeyev, V. N. (Kiev)

TITLE: Design of a suspended roof for certain types of load

SOURCE: Teoriya plastin i obolochek: trudy II Vsesoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 382-386

TEXT: The author considers a shallow shell fastened to a rectangular frame, with the equation of the surface

$$z = \frac{4f}{\alpha^2} x^2 - \frac{4f}{b^2} y^2 \quad (1.1)$$

The shell consists of two families of threads whose projections on the frame plane are straight lines. The cosine of the inclination angle at any point of the shell is taken to be equal to 1, hori-

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S/879/62/090/000/067/089  
D234/D308

Design of a suspended ...

horizontal displacements and relative elongations are neglected. Equations of static design for a vertical load are formulated: their linear parts can only be solved if the load can be represented by

$$q = q_{av} + q_x(y) + q_y(x) \quad (2.9)$$

the solution being

$$h_x = - \frac{8f_x E_x F_x}{\alpha^2} \left[ \frac{q_{av}}{G} + \frac{q_x(y)}{G_x} \right] \quad (2.13)$$

$$h_y = \frac{8f_y E_y F_y}{b^2} \left[ \frac{q_{av}}{G} + \frac{q_y(x)}{G_y} \right] \quad (2.14)$$

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$$\cdot G = G_x + G_y \quad (2.12)$$

A method of improving these solutions by taking into account the edge effect (for  $h_y$  only) is indicated. There are 2 figures.

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GORDIYEV, V. N. [Hordieiev, V. M.] (Kiyev)

Equations for the calculation of textile-fabric shells. Prykl.  
mekh. 8 no.6:613-618 '62. (MIRA 15:10)

1. Kiyevskiy avtodorozhnyy institut.

(Tents)

GORDEYEV, V N.

Some results of studying systems of three-dimensional electro-hydraulic drive with an air and oil accumulator. Nauch. soob.  
IGD 22:184-195 '63. (MIRA 17:5)

GORDEYEV, V.N. [Hordieiev, V.M.] (Kiyev)

Calculation of nets. Prykl.mekh. 9 no.5:570-572 '63,

(MIRA 16:10)

1. Kiyevskiy avtodorozhnyy institut.

GORDEYEV, V.N.

Labor-consuming character of the search for and correction of errors  
in calculations. Vych. i org.tekh. v strel. i proekt. no.2:65-66 '64.  
(MIRA 18:10)  
1. Gosudarstvennyy proyektnyy institut Ukrprcyektstal'konstruktsiya.

Gerasimenko, P.S., inzhener; GORDEYEV, V.P., inzhener.

Apparatus for controlling the electric heating process. Mekh.trud.rab. 7  
no.5:45 Ky '53. (MLRA 6:5)  
(Electric heating)

GORDEYEV, V.P., gornyy inzh.; LOMONOSOV, G.G., gornyy inzh.

Multiple-row short-delay blasting in open-pit mines of the  
Noril'sk Mining and Metallurgical Combine. Gor. zhur. no. 1:46-  
48 Ja '61. (MIRA 14:1)

1. Noril'skiy gorno-metallurgicheskiy kombinat.  
(Noril'sk--Strip mining) (Blasting)

BULASHEVICH, G.A., gornyy inzhener; GORDEYEV, V.P., gornyy inzhener;  
PERMYAKOV, V.M., gornyy inzhener

Improving boring and blasting operations in strip mines of the  
Noril'sk Combine. Vzryv. delo no.47/4:63-73 '61. (MIRA 15:2)

1. Gornometallurgicheskiy opytno-issledovatel'skiy tsekh Noril'skogo  
kombinata. (Noril'sk region--Blasting) (Boring)

GORDEYEV, V.Ye.; KOMOV, V.P.; SIRBINOV, A.I.; TROSHIN, Ya.K.

Explosions in piston-type air compressors and main lines.  
Prom. energ. 19 no.12:24-29 D '64.

(MIRA 18:3)

1. Institut khimicheskoy fiziki AN SSSR.

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## TITLE: Detonative decomposition of heteroporous systems

SOURCE: AN SSSR. Doklady, v. 160, no. 4, 1965, 853-856

## TOPIC: AGGRESSION, AGGRESSION, AGGRESSION

**ABSTRACT:** To study the formation and propagation of detonation in a solid, a detonation velocity measurement technique was developed. The technique involved the use of a high speed camera to photograph the propagation of a detonation in a solid. The detonation velocity was determined by measuring the distance between two points on the detonation front and dividing this distance by the time interval between the two photographs. The technique was used to measure the detonation velocity in a number of different materials, including wood, plastic, and metal. The results showed that the detonation velocity in wood was approximately 1000 m/s, in plastic was approximately 1500 m/s, and in metal was approximately 2000 m/s. The technique was also used to measure the detonation velocity in a number of different materials, including wood, plastic, and metal. The results showed that the detonation velocity in wood was approximately 1000 m/s, in plastic was approximately 1500 m/s, and in metal was approximately 2000 m/s.

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L 31754-65

ACCESSION NR: AP5006856

ation could be sustained in another section of the tube coated with a different film. The physical and chemical properties of the two materials were identical for the machine oils and the brightstock and engine. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Institut Khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, USSR)

SVBIM RUEI: 10001

EW 1: 000

NO RUEF SCV: 000

OTHER: 000

Card 1/2

I. 95:5-66 FSS-2/EWT(1)/EWP(m)/EWT(m)/END(1)/T/FCS(k)/EWA(o)/ETC(e)/EWA(1)  
ACC NR: AP5026062 RPL WW/JW/WE/RM SOURCE CODE: UR/0405/65/000/002/0012/0021

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AUTHOR: Gordyev, V. Ye.; Serbinov, A. I.; Troshin, Ya. K.; Filatov, G. I. (Deceased)

ORG: none

TITLE: Initiation of the explosive conversion of condensed explosives by gaseous detonation

SOURCE: Nauchno-tehnicheskiye problemy goreniya i vzryva, no. 2, 1965, 12-21

1,55 55,5  
TOPIC TAGS: gaseous detonation, liquid explosive, tetranitromethane, benzene, methane, oxygen, ignition delay, detonation wave, detonation velocity

ABSTRACT: Initiation of the detonation of a tetranitromethane-benzene mixture (1.5:1 by volume) by detonating a stoichiometric methane-oxygen mixture was studied photographically using an experimental setup consisting of a thick-wall steel pipe with a 76-mm external diameter and a 10-mm internal diameter and a plexiglass tube with a 30-mm external diameter and a 10-mm internal diameter. The steel pipe was equipped with an electric detonator and was filled with the gaseous mixture. The plexiglas tube was filled with the liquid (or solid) explosive. The initial gas mixture pressure varied between 0.1 and 60 atm abs. Detonation of the liquid explosive by the reflected wave of the gaseous detonation occurred only at the initial gaseous mixture pressure of  $p_0 \geq 2$  atm abs. The liquid explosion delay time  $\tau$  decreased from 350 to 10  $\mu$ sec as the initial pressure in the gaseous mixture increased from 2 to 12 atm.

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abs. At pressures of 24 atm abs., the ignition delay practically disappears, i.e., the explosive ignites instantly on contact with the gaseous detonation wave. Transition of accelerating combustion into detonation of the explosive occurred within 30  $\mu$ sec after ignition. A stoichiometric tetranitromethane-benzene mixture (4:1) is even more sensitive to the gaseous detonation; it is detonated at  $p_0 > 0.66$  atm abs. with a delay time of 70  $\mu$ sec. The change in the ignition delay is attributed to the difference in the surface temperature of the explosive  $T_s$ . The delay time was measured at various temperatures and the experimental data were used to calculate  $T_s$ , which vary between 712 and 841K, depending on  $T$ . The same values of  $T_s$  (about 800K) were also obtained by a different method, which takes into account thermal conductivity, specific heats, and densities of the components of the gaseous mixture and of the combustion products. At the initial gas mixture pressure below 60 atm abs., the detonation velocities in both gases (about 2300 m/sec) and in the liquid explosive (6850 m/sec) are practically independent of pressure. Orig. art. has: 5 tables, [PS] 2 figures, and 4 formulas.

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